

Chapter 5

Aviation Maintenance Company (AMC)

ORGANIZATION AND MISSIONS

5-1. The AMC provides intermediate level aviation maintenance to the division's aviation brigade, the division cavalry squadron, and corps medical aircraft operating in the division area. The AMC provides intermediate level avionics maintenance support, aircraft airframe, power plant, armament, and component repair. The AMC's mobile maintenance support teams (MSTs) perform AVIM forward maintenance support. These forward repair/recovery teams provide on-site technical assistance, backup aircraft recovery, to include rigging support, and retrograde of repairable aviation equipment by ground or by air. The AMC provides maintenance test flight evaluator support to supported AVUM units. The AMC will form a collection and classification point for aircraft peculiar materiel and provide fueling and defueling service for supported aircraft while in AVIM maintenance. This unit performs unit level maintenance on all organic equipment, except for communications and electronics (CE) and communications security equipment. See Figure 5-1. The aviation maintenance company consists of:

- Company headquarters.
- Production control section.
- Maintenance test flight section.
- Quality control section.
- Tool crib/shop stock section.
- Systems repair platoon.
 - Attack systems repair section.
 - General support aviation battalion (GSAB) systems repair section.
 - Cavalry systems repair section.
 - MEDEVAC systems repair section.
- Aircraft maintenance operations platoon.
 - Armament repair section.
 - ⇒ Fire control system shop.
 - ⇒ Weapons system shop.
 - Avionics repair section.
 - ⇒ Communications and electronics shop.
 - ⇒ Navigation/flight control/radar shop.
 - Electric repair section.
 - ⇒ Electrical repair shop.
 - ⇒ Battery repair shop.

- Sub-systems repair section.
 - ⇒ Power plant shop.

Structural shop.

- ⇒ Power train/NDI/pneudralic shop.
- Aircraft service/fuel section.

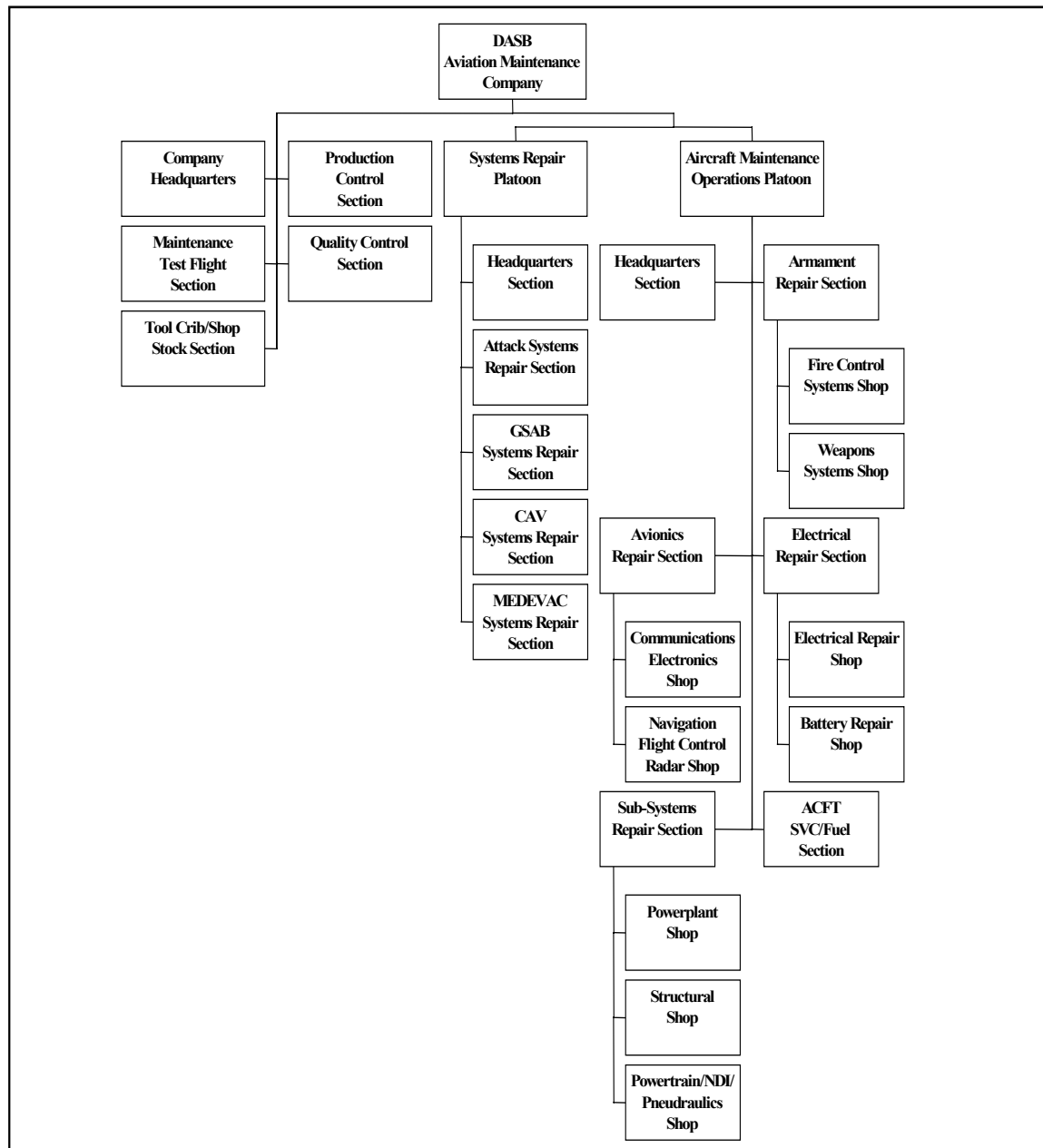


Figure 5-1. AMC Company

PERSONNEL AND SECTIONS

COMPANY HEADQUARTERS

5-2. The company headquarters provides command, control, administration, and logistical support required to conduct AVIM operations. The commander has direct control over all the company's administrative functions. This section coordinates all training and operational support requirements. The section also ensures that all equipment in the unit is accounted for and maintained. Functions of the company headquarters are to:

- Maintain load plans.
- Perform route reconnaissance.
- Organize the unit for movement and issue movement orders to AMC personnel.
- Request additional transportation through the DASB S4.
- Coordinate with the DASB S2/S3 on the quartering party.
- Provide C2 of AMC in response to an air or ground attack.
- Coordinate base defense.
- Establish communications.
- Determine placement of NBC assets in the headquarters area.
- Function as the AMC armorer.

PRODUCTION CONTROL SECTION

5-3. The production control officer is the principal AVIM manager. He is the single point of contact between AMC and supported units on aviation maintenance matters. The section establishes formal standing operating procedures (SOPs) to maximize the efficient use of maintenance resources. It receives and processes work requests, coordinates and schedules jobs into various shops, and maintains the status of aircraft parts and shop reports. It coordinates inspection and test flights as well as the return of repaired aircraft and equipment to supported units.

MAINTENANCE TEST FLIGHT SECTION

5-4. The maintenance test flight section performs test flights on aircraft to troubleshoot problems, confirm repairs, and conduct initial break-in of major components.

QUALITY CONTROL SECTION

5-5. This section enforces standards in repair, overhaul, modification, safety of flight, and other required maintenance functions. It is also responsible for safety in all maintenance areas. The quality control (QC) section reports directly to the company commander, this reduces conflicts of interest between the production control section, the maintenance shops, and the supported units. It also allows the inspectors to maintain objectivity in the performance of their inspection duties.

Tool Crib/Shop Stock Section

5-6. The tool crib section maintains all special tools, tool sets, special equipment, test sets, and assigned ground support equipment (GSE) used in aircraft maintenance. The section also obtains, stores, and issues bench stock for the different maintenance sections and shops.

SYSTEMS REPAIR PLATOON

5-7. This platoon performs intermediate-level aviation maintenance on aircraft systems operated in the division. It consists of a headquarters section and four repair sections: attack, GSAB, cavalry, and MEDEVAC systems repair sections. The platoon sends forward repair/recovery teams to the supported units as required. The teams are task-organized and provide mobile, forward maintenance support and on-site technical assistance. Personnel and equipment from this platoon are the nucleus for aircraft recovery and evacuation teams. When needed, the platoon receives assistance from other AVIM company platoons.

AIRCRAFT MAINTENANCE OPERATIONS PLATOON

5-8. This platoon consists of a headquarters section and five repair sections: armament, avionics, electrical, sub-systems, and aircraft service/fuel sections. Together, these sections perform the majority of AVIM and repairs to the aircraft assigned to the aviation brigade. Because the mix of aircraft in the ABs varies, the structure of the AVIM can also vary.

Armament Repair Section

5-9. This section has two repair shops; the fire control and weapons systems shops. The two shops provide the capability for intermediate level maintenance on electrical and electronic components of aircraft weapons fire control systems and on mechanical and hydraulic aircraft weapon systems.

Avionics Repair Section

5-10. This section has two repair shops; the CE and navigational and flight control radar shops. This section is responsible for repair of avionics communication equipment, avionics navigation and flight control items, and radar equipment.

ELECTRICAL REPAIR SECTION

5-11. This section has two shops; the electrical repair and battery repair shops. The section is responsible for aircraft electrical and battery repair.

SUBSYSTEM REPAIR SECTION

5-12. This section has four shops; the power plant, structural, and power trains and pneudraulics shops. This section is responsible for component, airframe, turbine engine, pneudraulic, rotor, and other subsystem repairs. Much of the platoon's workload involves repairing aircraft assemblies supporting the reparable exchange (RX) program.

AIRCRAFT SERVICE/FUEL SECTION

5-13. The aircraft service/fuel section gives the platoon 24-hour capability to fuel or defuel aircraft during maintenance operations. It also services organic helicopters and provides bulk and packaged POL. The section also maintains the AMC spill contingency plan.